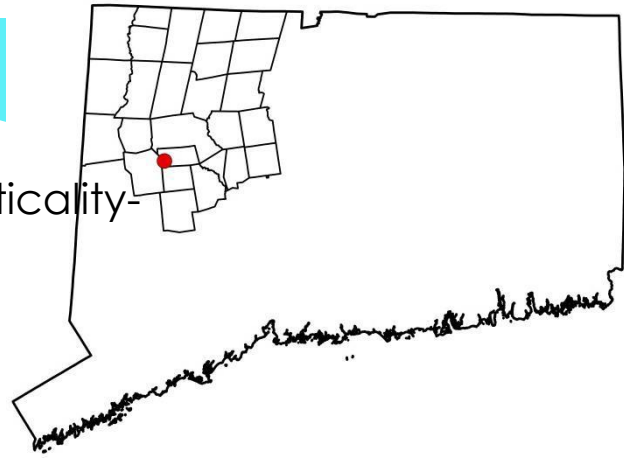


Climate Change Pilot Study Criticality- Structure Assessment

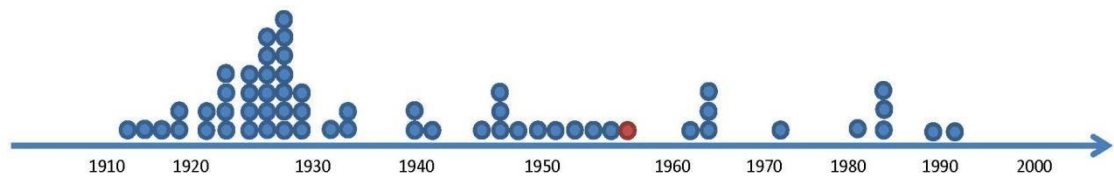


Structure: 05417

Location: Morris

Year Built: 1956

Criticality Ranking: 8



Structure 05417 is located on Route 109 over an unnamed brook in Morris. The hydraulic evaluation indicates that the structure can convey the estimated 100-yr frequency design event flows, however during the check storm event the structure does not have one foot of freeboard before reaching overtopping condition. Because the structure does not have adaptive capacity, is located within a 100 year FEMA flood zone, and is nearby several scour critical structures, it is considered to be climate critical.

| | Very Low to Low | | | Moderate | | | | Critical to Very Critical | | |
|-----------|--|---|---|--|---|---|---|--|---|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Hydraulic | High adaptive capacity | | | Moderate adaptive capacity | | | | Low adaptive capacity | | |
| | No history of closure | | | History of periodic closures | | | | Significant history of closure | | |
| | Satisfies WSE criteria | | | Adjacent to scour critical structures | | | | Does not satisfy WSE criteria | | |
| Spatial | Outside FEMA flood zones | | | Within 500 year FEMA flood zone | | | | Within 100 year FEMA flood zone | | |
| | Low concentration of impervious surfaces | | | Moderate concentration of impermeable surfaces | | | | High concentration of impermeable surfaces | | |
| Social | Low ADT & V/C | | | Moderate ADT & V/C | | | | High ADT & V/C | | |
| | 0-4 accidents | | | 5 or more accidents | | | | Emergency route | | |
| | Non-NHS, non-emergency route | | | NHS route | | | | Emergency services cluster | | |